

CLAIMS

- 1 – Use for foam manufacture in a foam manufacturing equipment designed for use with a blowing agent containing at least one hydrochlorofluorocarbon of a composition comprising at least one hydrofluorocarbon blowing agent and a non-halogenated polar organic compound having an atmospheric boiling point of from 30°C to 150°C.
- 2 – Use according to claim 1, wherein the non-halogenated polar organic compound is an oxygenated compound.
- 3 – Use according to claim 2, wherein the non-halogenated polar organic compound is ethanol.
- 4 – Use according to anyone of claims 1 to 3, wherein the hydrofluorocarbon comprises 1,1-difluoroethane (HFC-152a).
- 5 – Use according to claim 4, wherein the hydrofluorocarbon comprises further 1,1,1,2-tetrafluoroethane.
- 6 – Use according to anyone of claims 1 to 5, wherein the content of non-halogenated polar organic compound having an atmospheric boiling point of from 30°C to 150°C in the composition comprising the hydrofluorocarbon blowing agent and the non-halogenated polar organic compound is from 7 to 18% by weight.
- 7 – Use according to claim 6, wherein the content of non-halogenated polar organic compound is from more than 10 to 15% by weight.
- 8 – Use according to anyone of claims 1 to 7, wherein the foam manufacturing equipment is designed for use with a mixture of chlorodifluoromethane (HCFC-22) and 1,1-Difluoro-1-chloroethane (HCFC-142b), preferably in a weight ratio HCFC-22/HCFC-142b of 40:60.
- 9 – Use according to anyone of claims 1 to 8, wherein the foam manufacturing equipment is an extruder for manufacture of extruded polystyrene foam.

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10 – Use according to anyone of claims 1 to 9, wherein the composition is supplied to the foam manufacturing equipment as a mixture of its components.

5 11 – Use according to anyone of claims 1 to 9, wherein the at least one hydrofluorocarbon and the non-halogenated polar organic compound of the composition are supplied separately to the foam manufacturing equipment.

12 – Use according to anyone of claims 1 to 11, wherein the production rate of foam product is 85 to 110% relative to the production rate of the foam manufacturing equipment when operated with HCFC-blowing agent.

10 13 – Process for the manufacture of a polymer foam, comprising the use according to anyone of claims 1 to 12.

15 14 – Composition comprising at least one hydrofluorocarbon blowing agent and a non-halogenated polar organic compound having an atmospheric boiling point of from 30°C to 150°C wherein the content of the non-halogenated polar organic compound in the composition is from more than 10 to 15 % by weight.

15 – Use of 1,1,1,3,3-pentafluoropropane and/or 1,1,1,3,3-pentafluorobutane for improving the stability of a thermoplastic foam manufacturing process.